

### CLAIMS

1. A sound absorber comprising a molded part (1) made of thermoplastic material and at least one second part (2, 9) which with the molded part (1) delimits a hollow space (7), characterised in that a plurality of pin-shaped or spike-shaped spacers (4), which project into the hollow space (7) and are directed towards the second part (2) are formed on the molded part (1), wherein the molded part (1) has a plurality of recesses (6) on the outside which each extend into a spacer (4).
2. The sound absorber according to claim 1, characterised in that the outside (5) of the molded part (1) having the recesses (6) lies exposed.
3. The sound absorber according to claim 1 or claim 2, characterised in that the recesses (6) are closed towards the hollow space (7).
4. The sound absorber according to any one of claims 1 to 3, characterised in that the molded part (1) is produced by deep drawing of a thermoplastic plastic film.
5. The sound absorber according to any one of claims 1 to 4, characterised in that the molded part (1) is made of PET film.
6. The sound absorber according to any one of claims 1 to 5, characterised in that the second part (2, 9)

is formed of a heavy layer, a non-woven fabric layer, a foam layer and/or an acoustically effective textile layer.

7. The sound absorber according to any one of claims 1 to 6, characterised in that the average outside diameter of the respective spacer (4) is smaller than its average length.
8. The sound absorber according to any one of claims 1 to 7, characterised in that the molded part (1) is formed as cassette-shaped or dish-shaped.
9. The sound absorber according to any one of claims 1 to 8, characterised in that the depth of the molded part (1) is greater than the respective length of the spacers (4).
10. The sound absorber according to any one of claims 1 to 9, characterised in that the molded part (1) has a circumferential fixing flange (3).
11. The sound absorber according to any one of claims 1 to 10, characterised in that the spacers (4) and the recesses (6) are formed as non-uniformly distributed over the surface of the molded part (1).
12. The sound absorber according to any one of claims 1 to 11, characterised in that the recesses (6) have different inside diameters.

13. The sound absorber according to any one of claims 1 to 12, characterised in that the recesses (6) have different depths and/or the spacers (4) have different lengths.
14. The sound absorber according to any one of claims 1 to 13, characterised in that areas with spacers (4) of different length are formed on the molded part (1), wherein the spacers (4) in the different areas each have the same length.
15. The sound absorber according to any one of claims 1 to 14, characterised in that the hollow space (7) in the area between the spacers (4) is partially provided with acoustically effective material.